	Disease	Parasite	Risk population	Endemic region	Cases or deaths/year	CNS disorder triggered	Cytokines involved	Immune cells involved	References
Acute neuroinflammation	Cerebral malaria	Plasmodium falciparum (Protozoan)	Immunodeficient people Children under 5 years Pregnant women Non-endemic population	Sub-saharan Africa, Latin America, South Est of Asia	435,000 deaths/year	Paralysis Seizures Coma Death	IP10 TNF-a IL-6 IFN-y	Astrocytes Microglia LtCD8+	(24,28,25)
	African tryponozomiasis	Trypanozoma brucei rhodesiense (Protozoan) Trypanosoma brucei gambiense (Protozoan)	15 and 45 years and living in remote rural areas are considered especially vulnerable	Democratic Republic of the Congo Angola Sudan Republic of Congo Central African Republic	977 cases/year but this is an underestimate because the disease is mostly found in rural communities in the endemic areas	Leukoencephalitis Headache Personality changes Daytime somnolenne Sensory motor and Psychiatric disorders Death	IFN-y TNF-a IL-1B IFNa/b CXCL10	Proliferation of astrocytes Hypertrophy of astrocytes Activation of microglia Hypertrophy of Microglia Formation of microglia nodules T lymphocytes	(12, 10, 11)
Chronic neuroinflammation	Neurocysticercosis	Taenia <i>solium</i> (Cestode)	Children and women from infancy to old age, with a peak incidence at 20–50 years of age	Latin America Africa Asia	Approximately 370,710 individuals were infected with T. solium cysticercosis worldwide, resulting in over 28,000 deaths	Seizures Epilepsy Focal neurological deficits Elevated intracranial pressure Cognitive decline	TNF-a IFN-y IL-1ß	Lymphocyte TH1 Astrocytes Microglia Neutrophils Eosinophils Monocytes	(49, 46)
	Neuroschistomiasis	Schistosoma mansoni (Trematode) Schistosoma haematobium (Trematode)	Non-endemic population Immunodeficient people young people and adults	Tropics and subtropics	Over 200 million people are infected by the parasite but only 4% developed neuroschistosomiasis	Headache Visual disturbances Delirium Seizures Motor impairment Ataxia Encephalopathy	TNF-a IFN-y IL-1ß	Lymphocyte THI Astrocytes Microglia Neutrophils Eosinophils Monocytes	(12, 54, 11)
	Neurotoxoplasmosis	Toxoplasma gondii (Protozoan)	Pregnant women immunodieficient people	Worldwide	1/3 of the population is infected (2–3 billion people worldwide)	Headache Altered mental status Seizures Focal neurologic deficits Hemiparesis Ataxia Cranial nerve palsies Meningoencephalitis	IFN-α IFN-β IFN-y CXCL10 IL-12 IL-6	Monocytes Dendritic cells Astrocytes Microglia	(12, 11, 38)